**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Honors Algebra I**

**The following problems are due Monday, November 3rd. You may use any resource to solve these problems except if that resource is a person. You have been previously taught these standards. On Thursday of this week I will set aside 5 minutes to help you with any questions you may have in solving these problems. YOU MUST SHOW ALL WORK!**

1.) A bird is 30 feet high, in a tree. Harry the worm is on the ground. Harry is 40 feet from the base of the tree. How far is Harry from the hungry bird?

tweet

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?

Harry

2.) Harry has a cousin, Donny. Donny has climbed the tree, looking for the bird. The bird is now on the ground digesting Harry. If the bird is 24 feet from the base of the tree and is 25 feet from Donny, how high in the tree is Donny?

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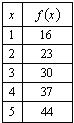
Donny

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3.) Write a function rule for the table is slope intercept form.



4.) A 1,500-gallon tank contains 200 gallons of water. Water begins to run into the tank at the rate of 75 gallons per hour. When will the tank be full but not overflowing? (You need to solve this algebraically!)

5.) Change the equation  to standard form.

6.) What is the equation of the line graphed below in slope intercept form?



7.) What is the equation in point-slope form of the line with slope  and which contains the point (4, -9) ?

A. 

B. 

C. 

D. 